

## Refine Search

### Search Results -

Terms	Documents
dimethylamino same phenyl same propion\$7 same cyclohexene same carboxyl\$6	27

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L16





### Search History

 DATE: Wednesday, June 21, 2006    [Printable Copy](#)    [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<u>L16</u>	dimethylamino same phenyl same propion\$7 same cyclohexene same carboxyl\$6	27	<u>L16</u>
<u>L15</u>	L14 and 560/\$	0	<u>L15</u>
<u>L14</u>	dimethylamino same phenyl same propion\$7 same cyclohexene	60	<u>L14</u>
<u>L13</u>	dimethylamino adj phenyl adj propion\$7	1	<u>L13</u>
<u>L12</u>	dimethylamino same phenyl same propion\$7	2846	<u>L12</u>
<u>L11</u>	L10 and carboxylic acid	484	<u>L11</u>
<u>L10</u>	L9 and 560/\$	581	<u>L10</u>
<u>L9</u>	L8 and ethyl ester	5174	<u>L9</u>
<u>L8</u>	L7 and phenyl and propion\$7	22340	<u>L8</u>
<u>L7</u>	dimethylamino	67377	<u>L7</u>
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<u>L6</u>	L5 and carboxylic acid	2	<u>L6</u>

L5 3679732 or 3649628

6 L5

L4 3679732.pn. or 3649628.pn.

2 L4

*DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

L3 gb-1216152-\$.did.

1 L3

L2 gb-1120186-\$.did.

0 L2

L1 gb-1226318-\$.did.

1 L1

END OF SEARCH HISTORY

## Hit List

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Search Results - Record(s) 1 through 10 of 27 returned.

☐ 1. Document ID: US 7053114 B2

L16: Entry 1 of 27

File: USPT

May 30, 2006

US-PAT-NO: 7053114

DOCUMENT-IDENTIFIER: US 7053114 B2

TITLE: Prodrugs of a 3-(pyrrol-2-ylmethylidene)-2-indolinone derivatives

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040186161 A1

September 23, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 2. Document ID: US 7002020 B1

L16: Entry 2 of 27

File: USPT

Feb 21, 2006

US-PAT-NO: 7002020

DOCUMENT-IDENTIFIER: US 7002020 B1

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of preparation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 3. Document ID: US 6797725 B2

L16: Entry 3 of 27

File: USPT

Sep 28, 2004

US-PAT-NO: 6797725

DOCUMENT-IDENTIFIER: US 6797725 B2

TITLE: Prodrugs of a 3-(pyrrol-2-ylmethylidene)-2-indolinone derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 4. Document ID: US 6562844 B2

L16: Entry 4 of 27

File: USPT

May 13, 2003

US-PAT-NO: 6562844

DOCUMENT-IDENTIFIER: US 6562844 B2

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of preparation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 5. Document ID: US 6531470 B1

L16: Entry 5 of 27

File: USPT

Mar 11, 2003

US-PAT-NO: 6531470

DOCUMENT-IDENTIFIER: US 6531470 B1

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of preparation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 6. Document ID: US 5618831 A

L16: Entry 6 of 27

File: USPT

Apr 8, 1997

US-PAT-NO: 5618831

DOCUMENT-IDENTIFIER: US 5618831 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Composition and method for treating cancer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 7. Document ID: US 5232484 A

L16: Entry 7 of 27

File: USPT

Aug 3, 1993

US-PAT-NO: 5232484

DOCUMENT-IDENTIFIER: US 5232484 A

TITLE: Degradation of pesticides by ferric reagents and peroxide in the presence of light

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 8. Document ID: US 5151357 A

L16: Entry 8 of 27

File: USPT

Sep 29, 1992

US-PAT-NO: 5151357  
DOCUMENT-IDENTIFIER: US 5151357 A

TITLE: Silver halide photographic material

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 9. Document ID: US 4554155 A

L16: Entry 9 of 27

File: USPT

Nov 19, 1985

US-PAT-NO: 4554155  
DOCUMENT-IDENTIFIER: US 4554155 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Controlled release compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 10. Document ID: US 4361436 A

L16: Entry 10 of 27

File: USPT

Nov 30, 1982

US-PAT-NO: 4361436  
DOCUMENT-IDENTIFIER: US 4361436 A

TITLE: Composition for plant growth regulation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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dimethylamino same phenyl same propion\$7 same  
cyclohexene same carboxyl\$6

27

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☐ 11. Document ID: US 4328026 A

L16: Entry 11 of 27

File: USPT

May 4, 1982

US-PAT-NO: 4328026

DOCUMENT-IDENTIFIER: US 4328026 A

TITLE: Phosphoranyl derivatives containing nitrogen

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 12. Document ID: US 4292142 A

L16: Entry 12 of 27

File: USPT

Sep 29, 1981

US-PAT-NO: 4292142

DOCUMENT-IDENTIFIER: US 4292142 A

TITLE: Separation of ethylbenzene from para- and meta-xylenes by extractive distillation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 13. Document ID: US 4146454 A

L16: Entry 13 of 27

File: USPT

Mar 27, 1979

US-PAT-NO: 4146454

DOCUMENT-IDENTIFIER: US 4146454 A

TITLE: Electromolecular propulsion in diverse semiconductive media

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 14. Document ID: US 3825537 A

L16: Entry 14 of 27

File: USOC

Jul 23, 1974

US-PAT-NO: 3825537

DOCUMENT-IDENTIFIER: US 3825537 A

TITLE: 1-THIAZOLIN-2-YL(OR THIAZIN-2-YL)-2-AMINO BENZIMIDAZOLES AND DERIVATIVES THEREOF

DATE-ISSUED: July 23, 1974

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: 544/55, 548/181, 548/307.4, 558/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 15. Document ID: US 3819693 A

L16: Entry 15 of 27

File: USOC

Jun 25, 1974

US-PAT-NO: 3819693

DOCUMENT-IDENTIFIER: US 3819693 A

TITLE: 9-HYDROXYFLUORENE-2-ALKANOIC ACIDS AND ESTERS THEREOF

DATE-ISSUED: June 25, 1974

INVENTOR-NAME: LEVINE S; PRINCIPE P

US-CL-CURRENT: 562/466, 435/127, 435/911, 435/913, 435/917, 544/107, 554/104,  
554/105, 554/108, 554/111, 554/116, 554/218, 554/220, 558/406, 558/410, 560/101,  
560/107, 560/134, 560/21, 560/34, 560/35, 560/45, 560/51, 560/53, 560/56, 560/8,  
562/434, 562/439, 562/440, 562/461, 562/492

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 16. Document ID: US 3816444 A

L16: Entry 16 of 27

File: USOC

Jun 11, 1974

US-PAT-NO: 3816444

DOCUMENT-IDENTIFIER: US 3816444 A

TITLE: THIAZOLINYL DERIVATIVES OF OMIKRON-PHENYLENEDIAMINES

DATE-ISSUED: June 11, 1974

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: 548/197, 544/53, 548/193, 548/194, 548/198, 558/17, 564/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 17. Document ID: US 3792080 A

L16: Entry 17 of 27

File: USOC

Feb 12, 1974

US-PAT-NO: 3792080  
DOCUMENT-IDENTIFIER: US 3792080 A

TITLE: PROCESS FOR SUBSTITUTED CYCLOHEXENES AND ITS PRODUCTS

DATE-ISSUED: February 12, 1974

INVENTOR-NAME: SATZINGER G; HECHTFISCHER G

US-CL-CURRENT: 560/48, 544/165

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 18. Document ID: US 3759903 A

L16: Entry 18 of 27

File: USOC

Sep 18, 1973

US-PAT-NO: 3759903  
DOCUMENT-IDENTIFIER: US 3759903 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF INDAZOLES

DATE-ISSUED: September 18, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: 544/55, 548/181

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 19. Document ID: US 3755402 A

L16: Entry 19 of 27

File: USOC

Aug 28, 1973

US-PAT-NO: 3755402  
DOCUMENT-IDENTIFIER: US 3755402 A

TITLE: ESTERS OF CYANIC ACID AND METHOD OF PREPARATION

DATE-ISSUED: August 28, 1973

INVENTOR-NAME: GRIGAT E; PUTTER R

US-CL-CURRENT: 560/100, 534/735, 534/859, 544/163, 546/153, 546/177, 546/291,  
548/304.4, 548/361.1, 548/370.1, 549/33, 552/208, 552/265, 552/267, 560/108,  
560/109, 560/139, 560/142, 560/301, 562/427, 562/429, 562/430, 562/434, 562/435,  
562/452, 562/465, 562/466, 562/490, 562/493, 562/496, 568/706, 568/716, 568/721,  
568/723, 568/743, 568/744, 568/763, 568/764, 568/775, 568/780, 568/781, 568/784,  
568/844

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 20. Document ID: US 3749717 A

L16: Entry 20 of 27

File: USOC

Jul 31, 1973

US-PAT-NO: 3749717

DOCUMENT-IDENTIFIER: US 3749717 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF BENZIMIDAZOLES

DATE-ISSUED: July 31, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R ; MAURER B

US-CL-CURRENT: 544/55, 548/181

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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Terms

Documents

dimethylamino same phenyl same propion\$7 same  
cyclohexene same carboxyl\$6

27

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☐ 21. Document ID: US 3740396 A

L16: Entry 21 of 27

File: USOC

Jun 19, 1973

US-PAT-NO: 3740396

DOCUMENT-IDENTIFIER: US 3740396 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF BENZOTRIAZOLES

DATE-ISSUED: June 19, 1973

INVENTOR-NAME: HAUGWITZ R; VENKATACHALA NARAVANAN

US-CL-CURRENT: [544/55](#), [548/181](#), [548/257](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	<a href="#">Sequences</a>	<a href="#">Attachments</a>	Claims	KIMC	Draw De
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☐ 22. Document ID: US 3720686 A

L16: Entry 22 of 27

File: USOC

Mar 13, 1973

US-PAT-NO: 3720686

DOCUMENT-IDENTIFIER: US 3720686 A

TITLE: MERCAPTOBENZIMIDAZOLE DERIVATIVES

DATE-ISSUED: March 13, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: [548/307.1](#), [558/13](#), [558/414](#), [564/155](#), [564/214](#), [564/218](#), [564/305](#),  
[564/315](#), [564/440](#), [564/441](#), [564/443](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	<a href="#">Sequences</a>	<a href="#">Attachments</a>	Claims	KIMC	Draw De
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☐ 23. Document ID: US 3660563 A

L16: Entry 23 of 27

File: USOC

May 2, 1972

US-PAT-NO: 3660563

DOCUMENT-IDENTIFIER: US 3660563 A

TITLE: WATER SOLUBLE ENTRAPPING OF A DRUG

DATE-ISSUED: May 2, 1972

INVENTOR-NAME: SHEPHERD THOMAS H; GOULD FRANCIS E

US-CL-CURRENT: 514/772.1, 514/772.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 24. Document ID: US 3564100 A

L16: Entry 24 of 27

File: USOC

Feb 16, 1971

US-PAT-NO: 3564100

DOCUMENT-IDENTIFIER: US 3564100 A

TITLE: BASICALLY SUBSTITUTED CYCLOALKENE COMPOUNDS AS ANTITUSSIVE AGENTS

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: FRANKUS ERNST; FLICK KURT

US-CL-CURRENT: 514/650

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 25. Document ID: US 3470249 A

L16: Entry 25 of 27

File: USOC

Sep 30, 1969

US-PAT-NO: 3470249

DOCUMENT-IDENTIFIER: US 3470249 A

TITLE: 1 - (M - HYDROXYPHENYL) - 2 - DIALKYLAMINO METHYL - CYCLOALKENES AND THE SALTS THEREOF AND THE PROCESS OF PERPARING THE SAME

DATE-ISSUED: September 30, 1969

INVENTOR-NAME: FRANKUS ERNST; FLICK KURT

US-CL-CURRENT: 564/446, 514/849, 546/322, 546/326, 564/339

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 26. Document ID: US 3388079 A

L16: Entry 26 of 27

File: USOC

Jun 11, 1968

US-PAT-NO: 3388079

DOCUMENT-IDENTIFIER: US 3388079 A

TITLE: High molecular weight polyethers containing silane groupings

DATE-ISSUED: June 11, 1968

INVENTOR-NAME: VANDENBERG EDWIN J

US-CL-CURRENT: 528/27; 528/16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 27. Document ID: US 3219591 A

L16: Entry 27 of 27

File: USOC

Nov 23, 1965

US-PAT-NO: 3219591

DOCUMENT-IDENTIFIER: US 3219591 A

TITLE: Organoaluminum oxide catalyst composition

DATE-ISSUED: November 23, 1965

INVENTOR-NAME: VANDENBERG EDWIN J

US-CL-CURRENT: 502/152; 556/175, 556/176, 556/177, 556/179

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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Terms

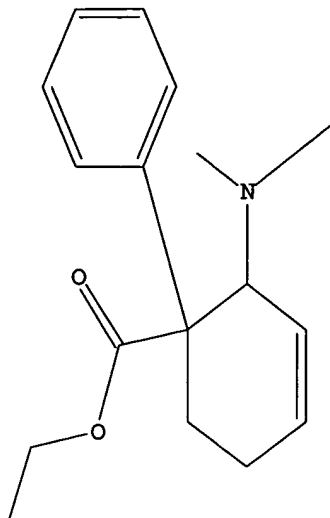
Documents

dimethylamino same phenyl same propion\$7 same  
cyclohexene same carboxyl\$6

27

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=> d  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full  
**REGISTRY INITIATED**  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:16:00 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 38025 TO ITERATE

100.0% PROCESSED 38025 ITERATIONS 98 ANSWERS  
SEARCH TIME: 00.00.01

L2 98 SEA SSS FUL L1

L3 273 L2

=> s l3 and ethyl and ester  
447482 ETHYL  
579117 ESTER

L4 11 L3 AND ETHYL AND ESTER

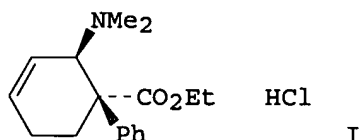
=> s l4 and py<1999  
19136673 PY<1999

L5 3 L4 AND PY<1999

=> d 1-3 ibib abs hitstr

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1977:593563 CAPLUS  
DOCUMENT NUMBER: 87:193563

TITLE: Metabolism of trans-D,L-2-(dimethylamino)-1-phenyl-3-cyclohexene-1-carboxylic acid **ethyl ester** hydrochloride (tilidine-HCl). Part 3.  
 AUTHOR(S): Renal metabolite elimination in rats, dog, and man  
 Vollmer, K. O.; Von Hodenberg, A.  
 CORPORATE SOURCE: Forschungsinst., Goedecke A.-G., Freiburg/Br., Fed. Rep. Ger.  
 SOURCE: Arzneimittel-Forschung (1977), 27(9), 1706-13  
 CODEN: ARZNAD; ISSN: 0004-4172  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI



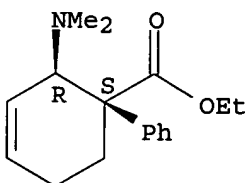
AB Renal elimination of tilidine-HCl (I) [27107-79-5] was similar in the rat, dog, and man. After oral administration of I-14C 50-60, 80, and >90% of the applied dose was eliminated in the urine in the resp. species. The half-life of renal 14C elimination was 8 h in the rat and man, and the elimination was faster in the dog. In all species, about 17% of the urinary radioactivity was in nonpolar metabolites. About 2-3% each was in nortilidine [38677-94-0] and bisnortilidine [53948-51-9], and <0.2% in unchanged I. Most of the polar metabolites were glucuronides. Five new metabolites, oxygenated derivs. of nortilidine and bisnortilidine, were isolated from rat urine.

IT 27107-79-5  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (metabolism of)

RN 27107-79-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



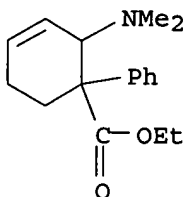
● HCl

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1973:3822 CAPLUS  
 DOCUMENT NUMBER: 78:3822  
 TITLE: **Ethyl** 4-amino-1-phenyl-2-cyclohexene-1-carboxylates  
 INVENTOR(S): Satzinger, Gerhard; Herrmann, Manfred  
 PATENT ASSIGNEE(S): Goedecke A.-G.

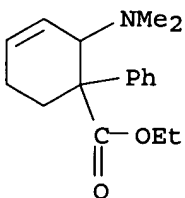
SOURCE: Ger. Offen., 42 pp. Division of Ger. Offen. 2,107,871.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2166019	A	19720831	DE 1971-2166019	19710218 <--
DE 2166019	B2	19750612		
DE 2166019	C3	19760212		

PRIORITY APPLN. INFO.: DE 1971-2166019 19710218  
 GI For diagram(s), see printed CA Issue.  
 AB Twenty-eight Et cyclohexenecarboxylates [I; R = H, Me, Et, Bu; R1 = H, Me, Et, Bu, allyl, phenylalkyl, etc.; NRR1 = morpholino, substituted piperazinyl, substituted piperidino] and (or) their salts useful as analgesics, antipyretics, sedatives, etc., were prepared from the cyclohexene (II; R4 = OAc). II (R4 = OAc) was hydrolyzed and then halogenated to give II (R4 = halo), which was treated with R1NHR to give I. II (R4 = OAc) was prepared by treating Et atropate with MeCH:CCHO-Ac2O.  
 IT 17243-69-5P 24357-97-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 17243-69-5 CAPLUS  
 CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)



RN 24357-97-9 CAPLUS  
 CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride (8CI, 9CI) (CA INDEX NAME)



● HCl

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1970:78530 CAPLUS  
 DOCUMENT NUMBER: 72:78530  
 TITLE: Ethyl (dimethylamino) (phenyl) (alkyl) -3-cyclohexene-1-carboxylates  
 INVENTOR(S): Satzinger, Gerhard; Herrmann, Wolfgang; Novack, R. Michael

PATENT ASSIGNEE(S): Goedecke A.-G.  
 SOURCE: Ger. Offen., 27 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 6  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1923619	A	19691218	DE 1969-1923619	19690508 <--
US 3649628	A	19720314	US 1968-777202	19681119 <--
ES 366913	A1	19710616	ES 1969-366913	19690507 <--
PRIORITY APPLN. INFO.:			US 1968-727689	A 19680508
			US 1968-777202	A 19681119
			US 1968-777197	A 19681119

GI For diagram(s), see printed CA Issue.

AB Title compds. were prepared Thus, under anhydrous conditions, 21.2 moles Me<sub>2</sub>NH was condensed at 5° over 2.5 hr into a mixture of 42.3 moles crotonaldehyde, 2120 ml benzene, 10.6 g phenanthrenequinone, and 21.15 moles K<sub>2</sub>CO<sub>3</sub>, the mixture stirred 15 min. and purged with N, 18.95 moles Et atropate added, the mixture heated to 75°, the external heat removed, and the temperature allowed to increase to 90° before external cooling was applied. After the exothermic reaction had ceased, the mixture was held 2 hr at 90-5°, then worked up to give 4135 g 3-dimethylamino-4-phenyl-4-carbethoxycyclohexene (I) (60% cis, 40% trans) containing <0.1% Et 2-phenyl-3-dimethylaminopropionate (II). This was added to 17.7 l. N HCl at 65°, the whole heated 1.5 hr at 70°, cooled to 35°, washed with petroleum ether, with activated C and diluted with water, treated at 25-30° with a ZnCl<sub>2</sub> solution containing 2.06 kg ZnCl<sub>2</sub>, 10.4 l. H<sub>2</sub>O, and 108 ml. concentrated HCl, the mixture held at 0-5°, 3.4 kg Zn complex cis-I filtered off, and the filtrate treated with aqueous NH<sub>4</sub>OH at 25° to give I containing 80% trans isomer and 20% cis isomer, together with 0.25% II. This product was combined with EtOAc and anhydrous HCl in EtOAc, the pH adjusted to 3.5-4, and the mixture heated to boiling and filtered hot to give 1119 g trans-I.HCl, m. 160-2°, containing 1-2% cis isomer and 0.25-0.5% II after washing. Stirring with THF at 25° gave 1011 g trans-I.HCl, m. 159-63°, containing 0.25-0.75% cis isomer and <0.25% II. Similar results were obtained by using EtOAc at 75° instead of THF at 25°. Similarly prepared were 3-dimethylamino-4-phenyl-4-carbethoxy-6-ethylcyclohexene-HCl (III.HCl) (cis isomer m. 157-9°, trans isomer m. 205.5-207°), and 2-methyl-3-dimethylamino-4-phenyl-4-carb-ethoxycyclohexene-HCl (cis isomer m. 185-7°, trans isomer m. 184.5-6.5°). The compds. are useful as analgesics.

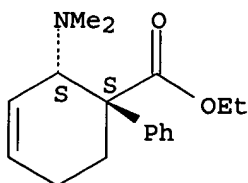
IT 20380-56-7P 20380-57-8P 25616-41-5P  
 25616-43-7P 25616-44-8P 25616-45-9P  
 51931-66-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 20380-56-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester,  
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

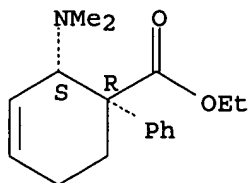




RN 20380-57-8 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R-trans)- (8CI, 9CI) (CA INDEX NAME)

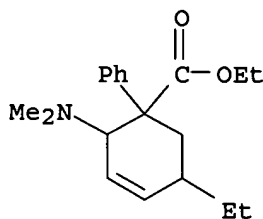
Absolute stereochemistry.



● HCl

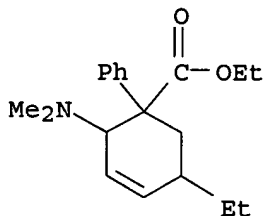
RN 25616-41-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-5-ethyl-1-phenyl-, ethyl ester, stereoisomer (8CI) (CA INDEX NAME)



RN 25616-43-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-5-ethyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

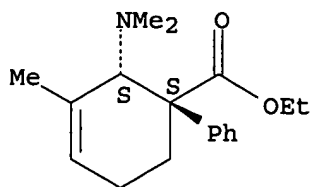


● HCl

RN 25616-44-8 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-3-methyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

Relative stereochemistry.

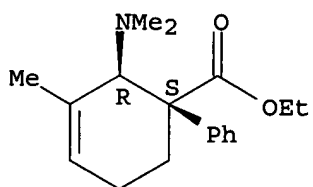


● HCl

RN 25616-45-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-3-methyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

Relative stereochemistry.

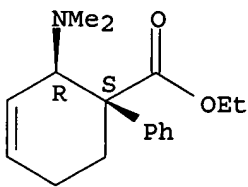


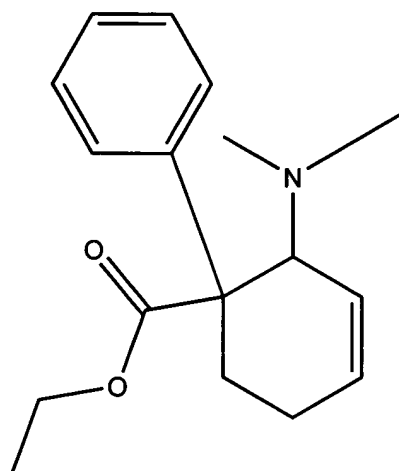
● HCl

RN 51931-66-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.





ethyl 2-dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate